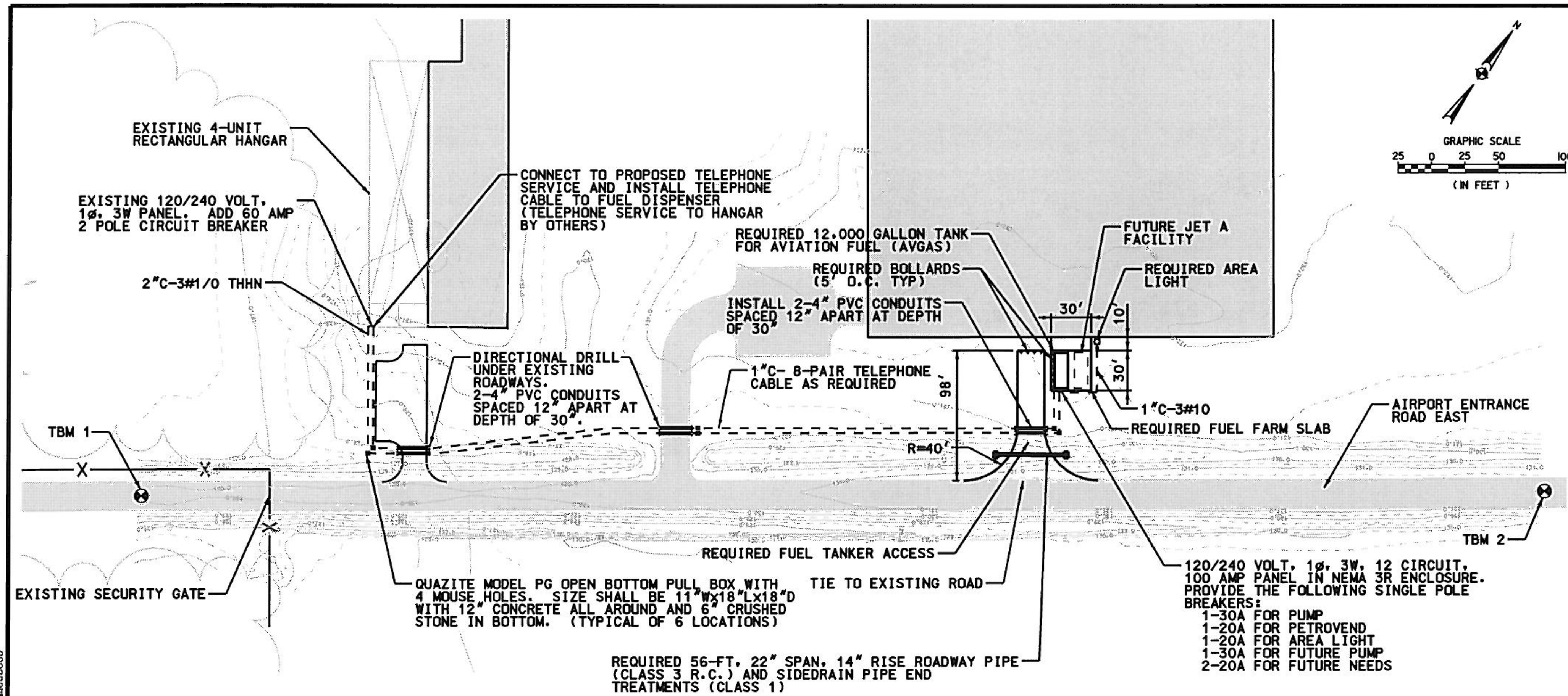
ALDOT NO.	PROJECT NO.	SHEET NO.
09-R-2208544	766006.10	1



ELECTRICAL SPECIFICATIONS:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE(NEC) AND ALL LOCAL RULES, REGULATIONS AND ORDINANCES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL OBTAIN ALL REQUIRED PERMITS.
3. ALL UNDERGROUND CONDUIT SHALL BE PVC, SCHEDULE 40, SIZE AS SHOWN OR AS REQUIRED.
4. ALL ABOVE GROUND CONDUIT SHALL BE RIGID GALVANIZED STEEL(RGS). THE TRANSITION FROM PVC TO RGS SHALL BE UNDERGROUND.
5. CONDUIT INSTALLED BY DIRECTIONAL DRILL SHALL BE PVC, SCHEDULE 40, HDPE, SIZE AS SHOWN.
6. ALL CONDUCTORS SHALL BE STRANDED COPPER, SIZE AS SHOWN OR AS REQUIRED AND SHALL HAVE 600 VOLT, TYPE THHN INSULATION.
7. ELECTRICAL EQUIPMENT AND CONDUITS SHALL BE INSTALLED IN ACCORDANCE WITH ARTICLE 500 OF THE NEC WHERE APPLICABLE.
8. AREA LIGHT SHALL BE 250 WATT METAL HALIDE COBRA HEAD ON TWO(2) FOOT MAST ARM AND SHALL HAVE INTEGRAL PHOTOCELL. FIXTURE SHALL BE MOUNTED ON 35'-5 PENTA TREATED POLE. POLE SHALL BE SET 5'-6" IN THE GROUND WITH LIGHT FIXTURE MOUNTED AT TOP OF THE POLE. CONTRACTOR SHALL INSTALL 3/4" RGS CONDUIT WITH 3# 10 AWG CONDUCTOR TO SERVE THE LIGHT FIXTURE. STRAP CONDUIT TO POLE WITH 2 HOLE STRAPS AND LAG BOLTS AT 4' MAXIMUM SPACING. POLE SHALL BE GROUNDED WITH #6 AWG SOLID BARE COPPER CONDUCTOR.
9. HDPE CONDUIT CASINGS SHALL BE INSTALLED BY DIRECTIONAL DRILLING WHERE SHOWN ON THE PLANS. CASINGS UNDER THE DRIVE TO THE PUMP AREA MAY BE INSTALLED BY TRENCHING PRIOR TO DRIVEWAY CONSTRUCTION.
10. ELECTRICAL SERVICE SIZE SHOWN IS BASED ON THE USE OF 1.5 HP, 120 VOLT PUMPS. SIZE OF SERVICE MAY BE INCREASED TO ACCOMMODATE LARGER PUMPS; HOWEVER 100 AMP FEEDER IS MAXIMUM SIZE ALLOWED. SERVICE SHALL BE NO SMALLER THAN SHOWN. INSTALL 3/4" X 10' COPPERCLAD STEEL GROUND ROD AT PANEL.
11. CONTRACTOR SHALL FABRICATE GALVANIZED RACK TO MOUNT PANEL.
12. CONTRACTOR SHALL INSTALL GROUND RODS AT FUEL DISPENSER SYSTEM IN ACCORDANCE WITH MANUFACTURES INSTRUCTIONS WITH A MINIMUM OF 2 - 3/4" X 10' COPPERCLAD STEEL RODS WITH #4 AWG BARE COPPER CONDUCTOR CONNECTED TO FUEL DISPENSER SYSTEM.
13. STATIC GROUND ROD FOR AIRCRAFT GROUNDING SHALL BE CONNECTED TO FUEL DISPENSER SYSTEM GROUND WITH #4 AWG BARE COPPER.
14. INSTALL TELEPHONE TERMINAL BOX ON BACK SIDE OF PANEL RACK FOR CONNECTION OF TELEPHONE CABLE TO FUEL DISPENSER SYSTEM.

CONSTRUCTION CONTROL POINTS

MONUMENT	NORTHING	EASTING	ELEVATION	DESCRIPTION
TBM 1	183029.2727	1725487.2513	130.10	PK NAIL
TBM 2	183555.5520	1726392.6130	131.84	PK NAIL

NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL ONSITE AND SHALL SUBMIT A DETAILED PLAN PRIOR TO THE START OF CONSTRUCTION ON THE METHOD TO ACCOMPLISH EROSION CONTROL.
2. DRAINAGE PIPES SHALL BE INSTALLED PER SECTION 530 OF THE ALDOT STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION (2008 ED.). REQUIRED DRAINAGE PIPES SHALL BE PLACED AT THE EXISTING DITCH SLOPE.
3. END TREATMENTS SHALL BE INSTALLED PER SECTION 619 OF THE ALDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION 2008 EDITION AND PER THE FOLLOWING SPECIAL AND STANDARD DRAWINGS CONTAINED IN THE ALDOT STANDARD DRAWING BOOK (2009 EDITION).

INDEX NO.:	DRAWING NO.:	DRAWING TITLE:
415	HW-614-SP	CONCRETE SLOPED PAVED HEADWALL AND GRATE FOR SIDEDRAIN PIPE

4. THE CONTRACTOR SHALL GRADE THE AREA AROUND THE REQUIRED END TREATMENTS.
5. THE CONTRACTOR SHALL PLACE A 3-FT STRIP OF SOD AROUND THE END TREATMENTS.
6. THE CONTRACTOR SHALL EXCAVATE AS NEEDED TO PROVIDE A MINIMUM OF 2-FT OF BORROW EXCAVATION BELOW REINFORCED CEMENT CONCRETE PAVEMENT.
7. THE EXACT SIZE OF FUEL FARM SLAB SHALL BE ADJUSTED TO MEET THE REQUIREMENTS OF THE FUEL DISPENSER SYSTEM MANUFACTURE.
8. PORTLAND CEMENT CONCRETE PAVEMENT SHALL BE INSTALLED PER SECTION 450 OF THE ALDOT STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION (2008 ED.).
9. EXCAVATION AND EMBANKMENT SHALL BE INSTALLED PER SECTION 210 OF THE ALDOT STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION (2008 ED.).
10. TOPSOIL SHALL BE INSTALLED PER SECTION 650 OF THE ALDOT STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION (2008 ED.).

NO.	DATE	DESCRIPTION	BY

REVISIONS

DESIGNED: G.B.M.	CHECKED: B.R.O.
DETAILED: G.B.M.	CHECKED: B.R.O.
SCALE: AS NOTED	DATE: 08 /06 /09

VOLKERT & ASSOCIATES, INC.

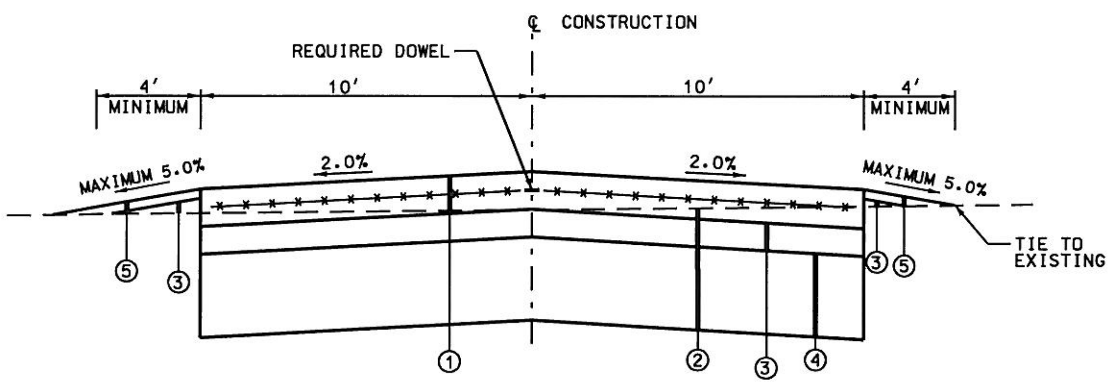
ST. ELMO AIRPORT
ST. ELMO, ALABAMA

PROJECT LAYOUT

FUEL DISPENSER SYSTEM

PROJECT NO. 766006.10
SHEET NO. 1

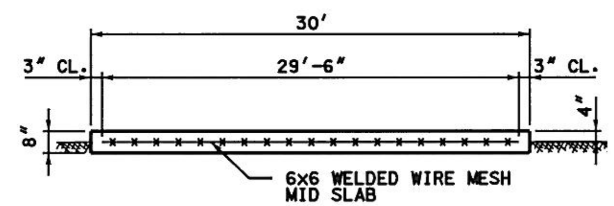
ALDOT NO.	PROJECT NO.	SHEET NO.
09-R-2208544	766006.10	2



FUEL TANKER ACCESS - TYPICAL SECTION

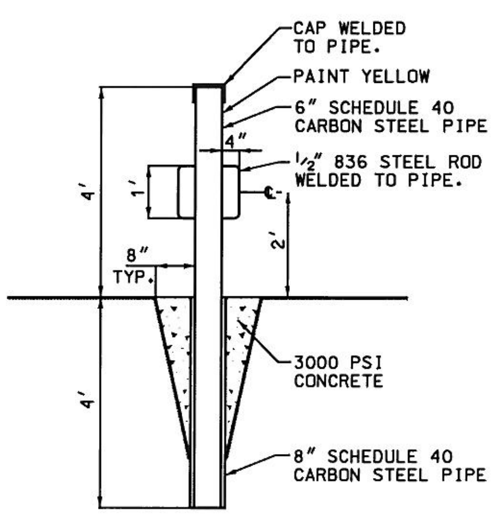
N.T.S.

LEGEND	ITEM
①	REINFORCED CEMENT CONCRETE PAYMENT, 8 INCHES THICK 4000 P.S.I.
②	UNCLASSIFIED EXCAVATION (SEE NOTE 6)
③	BORROW EXCAVATION 6″ SAND CLAY (95% SPD)
④	BORROW EXCAVATION 18″ CLEAN COURSE SAND (95% SPD)
⑤	TOPSOIL (4″ COMPACTED THICKNESS)



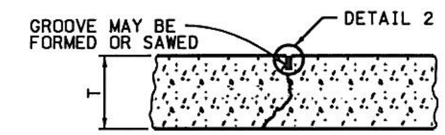
FUEL FARM SLAB SECTION

N.T.S.



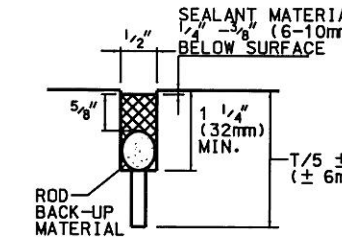
REMOVABLE BOLLARD DETAIL

N.T.S.



CONTRACTION JOINT

N.T.S.

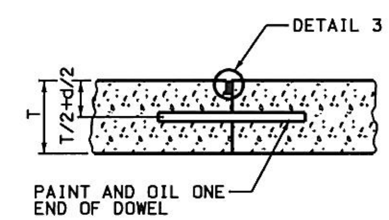


DETAIL 2

N.T.S.

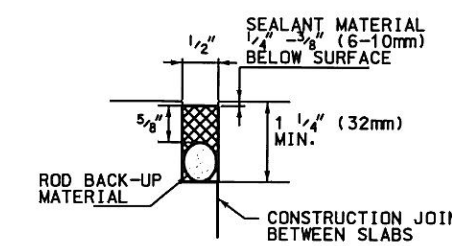
DETAIL NOTES:

1. CONCRETE SHALL BE BROOM FINISHED.
2. CONTRACTION JOINTS SHALL BE EQUALLY SPACED ALONG ACCESS. (MAXIMUM 10′)
3. JOINT SEALING MATERIAL SHALL MEET THE REQUIREMENTS OF ASTM D 7116 STANDARD SPECIFICATION FOR JOINT SEALANTS, HOT APPLIED, JET FUEL RESISTANT TYPES, FOR PORTLAND CEMENT CONCRETE OR OWNER APPROVED EQUAL.



TYPE D-DOWELED

N.T.S.



DETAIL 3

N.T.S.

CONSTRUCTION JOINTS

DOWEL DIMENSIONS AND SPACING			
SLAB THICKNESS	DIAMETER	LENGTH	SPACING
ALL	1 INCH	19 INCH	12 INCH

NO.	DATE	DESCRIPTION	BY
REVISIONS			

DESIGNED: G.B.M.	CHECKED: B.R.O.
DETAILED: G.B.M.	CHECKED: B.R.O.
SCALE: AS NOTED	DATE: 08 /06 /09

VOLKERT & ASSOCIATES, INC.

ST. ELMO AIRPORT
ST. ELMO, ALABAMA

PROJECT DETAILS

FUEL DISPENSER SYSTEM

PROJECT NO.	766006.10
SHEET NO.	2